



SEQUENCE LISTING

<110> Hubert Koster
Daniel Paul Little
Suhaib Mahmood Siddiqi
Matthew Peter Grealish
Subramaniam Marappan
Chester Frederick Hassman III
Ping Yip

<120> Capture Compounds, Collections Thereof
And Methods For Analyzing The Proteome And Complex
Compositions

<130> 21121-009001/2309

<140> 10/760,085

<141> 2004-01-16

<150> 60/441,398

<151> 2003-01-16

<160> 158

<170> FastSEQ for Windows Version 4.0

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<212> PRT

<213> Homo Sapien

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Arg	Arg	Pro	Val	Lys	Val	Tyr	Pro	Asn	Gly	Ala	Glu	Asp	Glu	Ser	Ala
			20					25					30		
Glu	Ala	Phe	Pro	Leu	Glu	Phe									
			35												

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<213> Homo Sapien

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Tyr	Arg	Gln	Ser	Met	Asn	Asn	Phe	Gln	Gly	Leu	Arg	Ser	Phe	Gly	Cys
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Arg	Phe	Gly	Thr	Cys	Thr	Val	Gln	Lys	Leu	Ala	His	Gln	Ile	Tyr	Gln
			20					25					30		
Phe	Thr	Asp	Lys	Asp	Lys	Asp	Asn	Val	Ala	Pro	Arg	Ser	Lys	Ile	Ser
		35					40					45			
Pro	Gln	Gly	Tyr												
			50												

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Ala Pro Ser Gly Ala Gln Arg Leu Tyr Gly Phe Gly Leu
1 5 10

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<400> 4

Trp Gly Lys Pro Val Ser Tyr Ser Met Glu His Phe Arg
1 5 10

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<400> 5

Ala Pro Arg Glu Arg Phe Tyr Ser Glu
1 5

<210> 6

<211> 10

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<400> 6

Tyr Gly Gly Phe Leu Arg Lys Tyr Pro Lys
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<210> 7

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<223> AMIDATION

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Glu Gly Arg Leu Gly Thr Gln Trp Ala Val Gly His Leu Met
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<210> 8

<211> 37

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<213> Homo Sapien

<400> 8
 Lys Cys Asn Thr Ala Thr Cys Ala Thr Asn Arg Leu Ala Asn Phe Leu
 1 5 10 15
 Val His Ser Ser Asn Asn Phe Gly Ala Ile Leu Ser Ser Thr Asn Val
 20 25 30
 Gly Ser Asn Thr Tyr
 35

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 <213> Homo Sapien

<400> 9
 Asp Arg Val Tyr Ile His Pro Phe His Leu
 1 5 10

<210> 10
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<400> 10
 Asp Arg Val Tyr Ile His Pro Phe
 1 5

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<400> 11
 Arg Val Tyr Ile His Pro Phe
 1 5

<210> 12
 <211> 13
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<400> 12
 Asn Arg Pro Arg Leu Ser His Leu Gly Pro Met Pro Phe
 1 5 10

<210> 13
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<223> Nle

<220>
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<223> Nle

<400> 13
Xaa His Leu Leu Arg Glu Val Leu Glu Leu Ala Arg Ala Glu Gln Leu
1 5 10 15
Ala Gln Glu Ala His Lys Asn Arg Leu Leu Glu Ile Ile
20 25

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<211> 28
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<213> Homo Sapien

<400> 14
Ser Leu Arg Arg Ser Ser Cys Phe Gly Gly Arg Met Asp Arg Ile Gly
1 5 10 15
Ala Gln Ser Gly Leu Gly Cys Asn Ser Phe Arg Tyr
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<400> 15
Lys Lys Ala Leu Arg Arg Gln Glu Thr Val Asp Ala Leu
1 5 10

<210> 16
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<400> 16
Tyr Gly Gly Phe Met Arg Arg Val Gly Arg Pro Glu
1 5 10

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<400> 17
Tyr Gly Gly Phe Met Arg Arg Val Gly Arg Pro Glu Trp Trp
1 5 10

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<211> 12
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<213> Homo Sapien

<400> 18

Tyr Gly Gly Phe Met Arg Arg Val Gly Arg Pro Glu
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<211> 31

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<213> Homo Sapien

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Tyr Gly Gly Phe Met Thr Ser Glu Lys Ser Gln Thr Pro Leu Val Thr
1 5 10 15
Leu Phe Lys Asn Ala Ile Ile Lys Asn Ala Tyr Lys Lys Gly Glu
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<213> Homo Sapien

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Ala Glu Lys Lys Asp Glu Gly Pro Tyr Arg Met Glu His Phe Arg Trp
1 5 10 15
Gly Ser Pro Pro Lys Asp
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<213> Homo Sapien

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Tyr Gly Gly Phe Leu Arg Lys Tyr Pro
1 5

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<211> 43

<212> PRT

<213> Homo Sapien

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Asp Ala Glu Phe Arg His Ala Ser Gly Tyr Glu Val His His Gln Lys
1 5 10 15
Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Leu Gly Ala Ile Ile
20 25 30
Gly Leu Met Val Gly Gly Val Val Ile Ala Thr
35 40

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<400> 23

Arg Leu Arg Phe His
1 5

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<211> 32
<212> PRT
<213> Homo Sapien

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Ser Pro Lys Met Val Gln Gly Ser Gly Cys Phe Gly Arg Lys Met Asp
1 5 10 15
Arg Ile Ser Ser Ser Ser Gly Leu Gly Cys Lys Val Leu Arg Arg His
20 25 30

<210> 25
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<400> 25
Arg Pro Pro Gly Phe Ser Pro Phe Arg
1 5

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<211> 11
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<223> AMIDATION

<400> 26
Gly Met Asp Ser Leu Ala Phe Ser Gly Gly Leu
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<212> PRT
<213> Homo Sapien

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<223> AMIDATION

<400> 27
Lys His Gly
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<213> Homo Sapien

<400> 28
 Ala Ser Lys Lys Pro Lys Arg Asn Ile Lys Ala
 1 5 10

<210> 29
 <211> 10
 <212> PRT
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<400> 29
 Glu Gln Asp Tyr Thr Gly Trp Met Asp Phe
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<210> 30
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 <213> Homo Sapien

<400> 30
 Ala Ile Pro Ile Thr Ser Phe Glu Glu Ala Lys Gly Leu Asp Arg Ile
 1 5 10 15
 Asn Glu Arg Met Pro Pro Arg Arg Asp Ala Met Pro
 20 25

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 <213> Homo Sapien

<400> 31
 Cys Gly Asn Leu Ser Thr Cys Met Leu Gly Thr Tyr Thr Gln Asp Phe
 1 5 10 15
 Asn Lys Phe His Thr Phe Pro Gln Thr Ala Ile Gly Val Gly Ala Pro
 20 25 30

<210> 32
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<400> 32
 Asp Pro Met Ser Ser Thr Tyr Ile Glu Glu Leu Gly Lys Arg Glu Val
 1 5 10 15
 Thr Ile Pro Pro Lys Tyr Arg Glu Leu Leu Ala
 20 25

<210> 33
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<400> 33
 Asn Gln Gly Arg His Phe Cys Gly Gly Ala Glu Ile His Ala Arg Phe
 1 5 10 15
 Val Met Thr Ala Ala Ser Cys Phe Asn
 20 25

<210> 34
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<400> 34
 Asn Pro Met Tyr Asn Ala Val Ser Asn Ala Asp Leu Met Asp Phe Lys
 1 5 10 15
 Asn Leu Leu Asp His Leu Glu Glu Lys Met Pro Leu Glu Asp
 20 25 30

<210> 35
 <211> 18
 <212> PRT
 <213> Homo Sapien

<400> 35
 Cys Asn Leu Ala Val Ala Ala Ala Ser His Ile Tyr Gln Asn Gln Phe
 1 5 10 15
 Val Gln

<210> 36
 <211> 35
 <212> PRT
 <213> Homo Sapien

<400> 36
 Lys Trp Lys Val Phe Lys Lys Ile Glu Lys Met Gly Arg Asn Ile Arg
 1 5 10 15
 Asn Gly Ile Val Lys Ala Gly Pro Ala Ile Ala Val Leu Gly Glu Ala
 20 25 30
 Lys Ala Leu
 35

<210> 37
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<400> 37
 Ser Gly Ser Ala Lys Val Ala Phe Ser Ala Ile Arg Ser Thr Asn His
 1 5 10 15

<210> 38

<211> 37
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<400> 38
 Ala Cys Asp Thr Ala Thr Cys Val Thr His Arg Leu Ala Gly Leu Leu
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 Ser Arg Ser Gly Gly Val Val Lys Asn Asn Phe Val Pro Thr Asn Val
 20 25 30
 Gly Ser Lys Ala Phe
 35

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<400> 39
 Ala Cys Asn Thr Ala Thr Cys Val Thr His Arg Leu Ala Gly Leu Leu
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 Ser Arg Ser Gly Gly Met Val Lys Ser Asn Phe Val Pro Thr Asn Val
 20 25 30
 Gly Ser Lys Ala Phe
 35

<210> 40
 <211> 17
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<400> 40
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 1 5 10 15
 Leu

<210> 41
 <211> 29
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 <213> Homo Sapien

<400> 41
 Gln Glu Gly Ala Pro Pro Gln Gln Ser Ala Arg Arg Asp Arg Met Pro
 1 5 10 15
 Cys Arg Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys Lys
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 <213> Homo Sapien

<400> 42
 Trp Gly
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<213> Homo Sapien

<400> 43
Ala Cys Tyr Cys Arg Ile Pro Ala Cys Ile Ala Gly Glu Arg Arg Tyr
1 5 10 15
Gly Thr Cys Ile Tyr Gln Gly Arg Leu Trp Ala Phe Cys Cys
20 25 30

<210> 44
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<400> 44
Cys Tyr Cys Arg Ile Pro Ala Cys Ile Ala Gly Glu Arg Arg Tyr Gly
1 5 10 15
Thr Cys Ile Tyr Gln Gly Arg Leu Trp Ala Phe Cys Cys
20 25

<210> 45
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<400> 45
Ala Leu Trp Lys Thr Met Leu Lys Lys Leu Gly Thr Met Ala Leu His
1 5 10 15
Ala Gly Lys Ala Ala Leu Gly Ala Ala Ala Asp Thr Ile Ser Gln Thr
20 25 30
Gln

<210> 46
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<400> 46
Tyr Gly Gly Phe Leu Arg Arg Ile Arg Pro Lys Leu Lys Trp Asp Asn
1 5 10 15
Gln

<210> 47
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<400> 47
Tyr Gly Gly Phe Leu Arg Arg Gln Phe Lys Val Val Thr
1 5 10

<210> 48

<211> 11
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<223> AMIDATION

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Glu Pro Ser Lys Asp Ala Phe Ile Gly Leu Met
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<213> Homo Sapien

<400> 49
Tyr Pro Trp Phe
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<210> 50
<211> 4
<212> PRT
<213> Homo Sapien

<400> 50
Tyr Pro Phe Phe
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<210> 51
<211> 21
<212> PRT
<213> Homo Sapien

<400> 51
Cys Ser Cys Ser Ser Leu Met Asp Lys Glu Cys Val Tyr Phe Cys His
1 5 10 15
Leu Asp Ile Ile Trp
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<223> AMIDATION

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 His Ser Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
 1 5 10 15
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
 20 25 30
 Ser Gly Ala Pro Pro Pro Ser
 35

<210> 53
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 <212> PRT
 <213> Homo Sapien

<400> 53
 Ala Ala Asp Ser Gly Glu Gly Asp Phe Leu Ala Glu Gly Gly Gly Val
 1 5 10 15
 Arg

<210> 54
 <211> 15
 <212> PRT
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<400> 54
 Asx Gln Gly Val Asn Asp Asn Glu Glu Gly Phe Phe Ser Ala Arg
 1 5 10 15

<210> 55
 <211> 8
 <212> PRT
 <213> Homo Sapien

<400> 55
 Glu Ile Leu Asp Val Pro Ser Thr
 1 5

<210> 56
 <211> 4
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<400> 56
 Phe Met Arg Phe
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<210> 57
 <211> 30
 <212> PRT
 <213> Homo Sapien

<400> 57
 Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro His Ala Val
 1 5 10 15
 Gly Asn His Arg Ser Phe Ser Asp Lys Asn Gly Leu Thr Ser
 20 25 30

<210> 58
 <211> 20
 <212> PRT
 <213> Homo Sapien

<220>
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 <222> 20
 <223> AMIDATION

<400> 58
 Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro Gln Gln Phe
 1 5 10 15
 Phe Gly Leu Met
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<210> 59
 <211> 5
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<400> 59
 Arg Leu Arg Phe Asp
 1 5

<210> 60
 <211> 17
 <212> PRT
 <213> Homo Sapien

<400> 60
 Glu Gly Pro Trp Leu Glu Glu Glu Glu Glu Ala Tyr Gly Trp Met Asp
 1 5 10 15
 Phe

<210> 61
 <211> 27
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 <213> Homo Sapien

<400> 61
 Val Pro Leu Pro Ala Gly Gly Gly Thr Val Leu Thr Lys Met Tyr Pro
 1 5 10 15
 Arg Gly Asn His Trp Ala Val Gly His Leu Met
 20 25

<210> 62
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 <212> PRT
 <213> Homo Sapien

<400> 62
 Gly Ser Ser Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

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 <213> Homo Sapien

<400> 63
 Tyr Ala Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Ala Met Asp Lys
 1 5 10 15
 Ile His Gln Gln Asp Phe Val Asn Trp Leu Leu Ala Gln Lys Gly Lys
 20 25 30
 Lys Asn Asp Trp Lys His Asn Ile Thr Gln
 35 40

<210> 64
 <211> 29
 <212> PRT
 <213> Homo Sapien

<400> 64
 His Ser Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Ser
 1 5 10 15
 Arg Arg Ala Gln Asp Phe Val Asp Trp Leu Met Asn Thr
 20 25

<210> 65
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 <213> Homo Sapien

<400> 65
 Arg Arg Phe Ala Cys Asp Pro Asp Gly Tyr Asp Asn Tyr Phe His Cys
 1 5 10 15
 Val Pro Gly Gly
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<210> 66
 <211> 20
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 <213> Homo Sapien

<400> 66
 Thr Gly Ser Trp Cys Gly Leu Met His Tyr Asp Asn Ala Trp Leu Cys
 1 5 10 15
 Asn Thr Gln Gly
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<210> 67
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<400> 67
 Arg Ser Lys Trp Cys Arg Asp Gly Tyr Tyr Ala Asn Tyr Pro Gln Cys

1	5	10	15
Trp Thr Gln Gly			
20			

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<400> 68
 Arg Ser Thr Leu Cys Trp Phe Glu Gly Tyr Asp Asn Thr Phe Pro Cys
 1 5 10 15
 Lys Tyr Phe Arg
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<210> 69
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<400> 69
 Arg Val Gln Glu Cys Lys Tyr Leu Tyr Tyr Asp Asn Asp Tyr Leu Cys
 1 5 10 15
 Lys Asp Asp Gly
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<210> 70
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 <213> Homo Sapien

<400> 70
 Gly Leu Arg Arg Cys Leu Tyr Gly Pro Tyr Asp Asn Ala Trp Val Cys
 1 5 10 15
 Asn Ile His Glu
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<210> 71
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 <213> Homo Sapien

<400> 71
 Lys Leu Phe Trp Cys Thr Tyr Glu Asp Tyr Ala Asn Glu Trp Pro Cys
 1 5 10 15
 Pro Gly Tyr Ser
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<210> 72
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<400> 72
 Phe Cys Ala Val Cys Asn Glu Glu Leu Tyr Glu Asn Cys Gly Gly Cys
 1 5 10 15

Ser Cys Gly Lys
20

<210> 73
<211> 20
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<213> Homo Sapien

<400> 73
Arg Thr Ser Pro Cys Gly Tyr Ile Gly Tyr Asp Asn Ile Phe Glu Cys
1 5 10 15
Thr Tyr Leu Gly
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<210> 74
<211> 20
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<213> Homo Sapien

<400> 74
Thr Gly Glu Trp Cys Ala Gln Ser Val Tyr Ala Asn Tyr Asp Asn Cys
1 5 10 15
Lys Ser Ala Trp
20

<210> 75
<211> 20
<212> PRT
<213> Homo Sapien

<400> 75
Asn Val Ser Arg Cys Thr Tyr Ile His Tyr Asp Asn Trp Ser Leu Cys
1 5 10 15
Gly Val Glu Val
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<210> 76
<211> 20
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<213> Homo Sapien

<400> 76
Gly Val Ser Asn Cys Val Phe Trp Gly Tyr Ala Asn Asp Trp Leu Cys
1 5 10 15
Ser Asp Tyr Ser
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<210> 77
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<213> Homo Sapien

<400> 77
Tyr Ala Asp Ala Ile Phe Thr Asn Ser Tyr Arg Lys Val Leu Gly Gln
1 5 10 15
Leu Ser Ala Arg Lys Leu Leu Gln Asp Ile Met Ser Arg Gln Gln Gly

		20						25			30
Glu	Ser	Asn	Gln	Glu	Arg	Gly	Ala	Arg	Ala	Arg	Leu
		35					40				

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<400> 78
 Pro Gly Thr Cys Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys
 1 5 10 15

<210> 79
 <211> 35
 <212> PRT
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<400> 79
 His Ser Asp Ala Ile Phe Thr Glu Glu Tyr Ser Lys Leu Leu Ala Lys
 1 5 10 15
 Leu Ala Leu Gln Lys Tyr Leu Ala Ser Ile Leu Gly Ser Arg Thr Ser
 20 25 30
 Pro Pro Pro
 35

<210> 80
 <211> 38
 <212> PRT
 <213> Homo Sapien

<400> 80
 His Ser Asp Ala Thr Phe Thr Ala Glu Tyr Ser Lys Leu Leu Ala Lys
 1 5 10 15
 Leu Ala Leu Gln Lys Tyr Leu Glu Ser Ile Leu Gly Ser Ser Thr Ser
 20 25 30
 Pro Arg Pro Pro Ser Ser
 35

<210> 81
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 <213> Homo Sapien

<400> 81
 His Ser Asp Ala Thr Phe Thr Ala Glu Tyr Ser Lys Leu Leu Ala Lys
 1 5 10 15
 Leu Ala Leu Gln Lys Tyr Leu Glu Ser Ile Leu Gly Ser Ser Thr Ser
 20 25 30
 Pro Arg Pro Pro Ser
 35

<210> 82
<211> 24
<212> PRT
<213> Homo Sapien

<400> 82
Asp Ser His Ala Lys Arg His His Gly Tyr Lys Arg Lys Phe His Glu
1 5 10 15
Lys His His Ser His Arg Gly Tyr
20

<210> 83
<211> 4
<212> PRT
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<220>
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Tyr Val Ala Xaa
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<210> 84
<211> 6
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<400> 84
Val Glu Pro Ile Pro Tyr
1 5

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<211> 21
<212> PRT
<213> Homo Sapien

<400> 85
Gly Ile Val Glu Gln Cys Cys Thr Ser Ile Cys Ser Leu Tyr Gln Leu
1 5 10 15
Glu Asn Tyr Cys Asn
20

<210> 86
<211> 30
<212> PRT
<213> Homo Sapien

<400> 86
Phe Val Asn Gln His Leu Cys Gly Ser His Leu Val Glu Ala Leu Tyr
1 5 10 15
Leu Val Cys Gly Glu Arg Gly Phe Phe Tyr Thr Pro Lys Thr
20 25 30

<210> 87
<211> 51
<212> PRT
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<400> 87
Gly Ile Val Glu Gln Cys Cys Thr Ser Ile Cys Ser Leu Tyr Gln Leu
1 5 10 15
Glu Asn Tyr Cys Asn Phe Val Asn Gln His Leu Cys Gly Ser His Leu
20 25 30
Val Glu Ala Leu Tyr Leu Val Cys Gly Glu Arg Gly Phe Phe Tyr Thr
35 40 45
Pro Lys Thr
50

<210> 88
<211> 9
<212> PRT
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<400> 88
Ile Ala Arg Arg His Pro Tyr Phe Leu
1 5

<210> 89
<211> 5
<212> PRT
<213> Homo Sapien

<400> 89
Tyr Gly Gly Phe Leu
1 5

<210> 90
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<400> 90
Glu Gln Trp Ala Val Gly His Phe Met
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<210> 91
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<213> Homo Sapien

<400> 91
Arg Thr Lys Arg Ser Gly Ser Val Tyr Glu Pro Leu Lys Ile
1 5 10

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<212> PRT
<213> Homo Sapien

<400> 92
Tyr Gly Gly Phe Met
1 5

<210> 93
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<220>
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<223> AMIDATION

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Tyr Gly Gly Gly Phe Met Arg Arg Val
1 5

<210> 94
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<212> PRT
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<400> 94
Phe Val Pro Ile Phe Thr Tyr Gly Glu Leu Gln Arg Met Gln Glu Lys
1 5 10 15
Glu Arg Asn Lys Gly Gln
20

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<212> PRT
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<400> 95
Pro Met Ser Met Leu Arg Leu Asn His
1 5

<210> 96
<211> 13

<212> PRT
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<400> 96
Ile Pro Lys Lys Arg Ala Ala Arg Ala Thr Ser Asn His
1 5 10

<210> 97
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<212> PRT
<213> Homo Sapien

<400> 97
Gly Ala Val Ser Thr Ala
1 5

<210> 98
<211> 10
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<400> 98
His Lys Thr Asp Ser Phe Val Gly Leu Met
1 5 10

<210> 99
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<212> PRT
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<223> AMIDATION

<400> 99
Asp Met His Asp Phe Phe Val Gly Leu Met
1 5 10

<210> 100
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<213> Homo Sapien

<220>
<221> MOD_RES
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<223> AMIDATION

<400> 100
Gly Asn Leu Trp Ala Thr Gly His Phe Met
1 5 10

<210> 101
 <211> 36
 <212> PRT
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<220>
 <221> MOD_RES
 <222> 36
 <223> AMIDATION

<400> 101
 Tyr Pro Ser Lys Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp
 1 5 10 15
 Met Ala Arg Tyr Tyr Ser Ala Lys Arg His Tyr Ile Asn Leu Ile Thr
 20 25 30
 Arg Gln Arg Tyr
 35

<210> 102
 <211> 12
 <212> PRT
 <213> Homo Sapien

<220>
 <221> MOD_RES
 <222> 1
 <223> PYRROLIDONE CARBOXYLIC ACID

<400> 102
 Glu Leu Tyr Glu Asn Lys Pro Arg Arg Pro Ile Leu
 1 5 10

<210> 103
 <211> 17
 <212> PRT
 <213> Homo Sapien

<400> 103
 Phe Gly Gly Phe Thr Gly Ala Arg Lys Ser Ala Arg Lys Leu Ala Asn
 1 5 10 15
 Gln

<210> 104
 <211> 31
 <212> PRT
 <213> Homo Sapien

<400> 104
 Phe Ala Glu Pro Leu Pro Ser Glu Glu Glu Gly Glu Ser Tyr Ser Lys
 1 5 10 15
 Glu Val Pro Glu Met Glu Lys Arg Tyr Gly Gly Phe Met Arg Phe
 20 25 30

<210> 105

<211> 6
 <212> PRT
 <213> Homo Sapien

<400> 105
 Glu Gln Lys Gln Leu Gln
 1 5

<210> 106
 <211> 33
 <212> PRT
 <213> Homo Sapien

<220>
 <221> MOD_RES
 <222> 33
 <223> AMIDATION

<220>
 <221> MOD_RES
 <222> 1
 <223> PYRROLIDONE CARBOXYLIC ACID

<400> 106
 Glu Pro Leu Pro Asp Cys Cys Arg Gln Lys Thr Cys Ser Cys Arg Leu
 1 5 10 15
 Tyr Glu Leu Leu His Gly Ala Gly Asn His Ala Ala Gly Ile Leu Thr
 20 25 30
 Leu

<210> 107
 <211> 28
 <212> PRT
 <213> Homo Sapien

<220>
 <221> MOD_RES
 <222> 28
 <223> AMIDATION

<400> 107
 Arg Ser Gly Pro Pro Gly Leu Gln Gly Arg Leu Gln Arg Leu Leu Gln
 1 5 10 15
 Ala Ser Gly Asn His Ala Ala Gly Ile Leu Thr Met
 20 25

<210> 108
 <211> 49
 <212> PRT
 <213> Homo Sapien

<400> 108
 Tyr Leu Tyr Gln Trp Leu Gly Ala Pro Val Pro Tyr Pro Asp Pro Leu
 1 5 10 15
 Glu Pro Arg Arg Glu Val Cys Glu Leu Asn Pro Asp Cys Asp Glu Leu
 20 25 30
 Ala Asp His Ile Gly Phe Gln Glu Ala Tyr Arg Arg Phe Tyr Gly Pro

Val 35 40 45

<210> 109
 <211> 11
 <212> PRT
 <213> Homo Sapien

<400> 109
 Cys Tyr Ile Gln Asn Cys Pro Leu Gly Asn His
 1 5 10

<210> 110
 <211> 27
 <212> PRT
 <213> Homo Sapien

<400> 110
 His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln
 1 5 10 15
 Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu
 20 25

<210> 111
 <211> 29
 <212> PRT
 <213> Homo Sapien

<400> 111
 Asp Val Ala His Gly Ile Leu Asn Glu Ala Tyr Arg Lys Val Leu Asp
 1 5 10 15
 Gln Leu Ser Ala Gly Lys His Leu Gln Ser Leu Val Ala
 20 25

<210> 112
 <211> 38
 <212> PRT
 <213> Homo Sapien

<400> 112
 Ala Pro Leu Glu Pro Val Tyr Pro Gly Asp Asn Ala Thr Pro Glu Gln
 1 5 10 15
 Met Ala Gln Tyr Ala Ala Asp Leu Arg Arg Tyr Ile Asn Met Leu Thr
 20 25 30
 Arg Pro Arg Tyr Asn His
 35

<210> 113
 <211> 4
 <212> PRT
 <213> Homo Sapien

<400> 113
 Gly Gly Tyr Arg
 1

<210> 114
<211> 12
<212> PRT
<213> Homo Sapien

<400> 114
Tyr Gly Gly Phe Met Arg Arg Val Gly Arg Pro Glu
1 5 10

<210> 115
<211> 36
<212> PRT
<213> Homo Sapien

<220>
<221> MOD_RES
<222> 36
<223> AMIDATION

<400> 115
Tyr Pro Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu
1 5 10 15
Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr
20 25 30
Arg Gln Arg Tyr
35

<210> 116
<211> 9
<212> PRT
<213> Homo Sapien

<400> 116
Arg Arg Lys Ala Ser Gly Pro Pro Val
1 5

<210> 117
<211> 11
<212> PRT
<213> Homo Sapien

<220>
<221> MOD_RES
<222> 11
<223> AMIDATION

<220>
<221> MOD_RES
<222> 1
<223> PYRROLIDONE CARBOXYLIC ACID

<400> 117
Glu Ala Asp Pro Asn Lys Phe Tyr Gly Leu Met
1 5 10

<210> 118
<211> 11
<212> PRT
<213> Homo Sapien

<220>
<221> MOD_RES
<222> 11
<223> AMIDATION

<220>
<221> MOD_RES
<222> 1
<223> PYRROLIDONE CARBOXYLIC ACID

<400> 118
Glu Val Pro Gln Trp Ala Val Gly His Phe Met
1 5 10

<210> 119
<211> 5
<212> PRT
<213> Homo Sapien

<220>
<221> UNSURE
<222> 1,5
<223> Xaa is a variable

<400> 119
Xaa Arg Gly Asp Xaa
1 5

<210> 120
<211> 4
<212> PRT
<213> Homo Sapien

<400> 120
Gly Gln Pro Arg
1

<210> 121
<211> 13
<212> PRT
<213> Homo Sapien

<400> 121
Arg Arg Leu Ile Glu Asp Ala Glu Tyr Ala Ala Arg Gly
1 5 10

<210> 122
<211> 5
<212> PRT
<213> Homo Sapien

<400> 122
Arg Pro Thr Val Leu
1 5

<210> 123
<211> 27
<212> PRT
<213> Homo Sapien

<400> 123
His Ser Asp Gly Thr Phe Thr Ser Glu Leu Ser Arg Leu Arg Glu Gly
1 5 10 15
Ala Arg Leu Gln Arg Leu Leu Gln Gly Leu Val
20 25

<210> 124
<211> 9
<212> PRT
<213> Homo Sapien

<220>
<221> MOD_RES
<222> 1
<223> PYRROLIDONE CARBOXYLIC ACID

<400> 124
Glu Ala Lys Ser Gln Gly Gly Ser Asn
1 5

<210> 125
<211> 19
<212> PRT
<213> Homo Sapien

<400> 125
Pro Gln Cys Gly Lys Cys Arg Ile Cys Lys Asn Pro Glu Ser Asn Tyr
1 5 10 15
Cys Leu Lys

<210> 126
<211> 19
<212> PRT
<213> Homo Sapien

<400> 126
Pro Gln Cys Gly Lys Cys Arg Val Cys Lys Asn Pro Glu Ser Asn Tyr
1 5 10 15
Cys Leu Lys

<210> 127
<211> 19
<212> PRT
<213> Homo Sapien

<400> 127
 Pro Gln Cys Gly Lys Cys Arg Ile Cys Lys Asn Pro Glu Ser Asn Tyr
 1 5 10 15
 Cys Leu Lys

<210> 128
 <211> 19
 <212> PRT
 <213> Homo Sapien

<400> 128
 Pro Leu Cys Arg Lys Cys Lys Phe Cys Leu Ser Pro Leu Thr Asn Leu
 1 5 10 15
 Cys Gly Lys

<210> 129
 <211> 18
 <212> PRT
 <213> Homo Sapien

<400> 129
 Pro Gln Gly Glu Cys Lys Phe Cys Leu Asn Pro Lys Thr Asn Leu Cys
 1 5 10 15
 Gln Lys

<210> 130
 <211> 11
 <212> PRT
 <213> Homo Sapien

<220>
 <221> MOD_RES
 <222> 11
 <223> AMIDATION

<400> 130
 Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met
 1 5 10

<210> 131
 <211> 15
 <212> PRT
 <213> Homo Sapien

<400> 131
 Pro Leu Ala Arg Thr Leu Ser Val Ala Gly Leu Pro Gly Lys Lys
 1 5 10 15

<210> 132
 <211> 18
 <212> PRT
 <213> Homo Sapien

<400> 132
 Ala Val Gln Ser Lys Pro Pro Ser Lys Arg Asp Pro Pro Lys Met Gln
 1 5 10 15
 Thr Asp

<210> 133
 <211> 36
 <212> PRT
 <213> Homo Sapien

<400> 133
 Thr Phe Gly Ser Gly Glu Ala Asp Cys Gly Leu Arg Pro Leu Phe Glu
 1 5 10 15
 Lys Lys Ser Leu Glu Asp Lys Thr Glu Arg Glu Leu Leu Glu Ser Tyr
 20 25 30
 Ile Asp Gly Arg
 35

<210> 134
 <211> 5
 <212> PRT
 <213> Homo Sapien

<400> 134
 Arg Lys Asp Val Tyr
 1 5

<210> 135
 <211> 9
 <212> PRT
 <213> Homo Sapien

<400> 135
 Gln Ala Lys Ser Gln Gly Gly Ser Asn
 1 5

<210> 136
 <211> 3
 <212> PRT
 <213> Homo Sapien

<220>
 <221> MOD_RES
 <222> 1
 <223> PYRROLIDONE CARBOXYLIC ACID

<400> 136
 Glu His Pro
 1

<210> 137
 <211> 4
 <212> PRT
 <213> Homo Sapien

<400> 137
Thr Lys Pro Arg
1

<210> 138
<211> 11
<212> PRT
<213> Homo Sapien

<220>
<221> MOD_RES
<222> 11
<223> AMIDATION

<220>
<221> MOD_RES
<222> 1
<223> PYRROLIDONE CARBOXYLIC ACID

<400> 138
Glu Pro Asp Pro Asn Ala Phe Tyr Gly Leu Met
1 5 10

<210> 139
<211> 5
<212> PRT
<213> Homo Sapien

<400> 139
Asp Leu Trp Gln Lys
1 5

<210> 140
<211> 40
<212> PRT
<213> Homo Sapien

<400> 140
Asp Asn Pro Ser Leu Ser Ile Asp Leu Thr Phe His Leu Leu Arg Thr
1 5 10 15
Leu Leu Glu Leu Ala Arg Thr Gln Ser Gln Arg Glu Arg Ala Glu Gln
20 25 30
Asn Arg Ile Ile Phe Asp Ser Val
35 40

<210> 141
<211> 16
<212> PRT
<213> Homo Sapien

<400> 141
Asn Asp Asp Cys Glu Leu Cys Val Asn Val Ala Cys Thr Gly Cys Leu
1 5 10 15

<210> 142
<211> 27

<212> PRT
<213> Homo Sapien

<400> 142
Gly Leu Ser Lys Gly Cys Phe Gly Leu Lys Leu Asp Arg Ile Gly Ser
1 5 10 15
Met Ser Gly Leu Gly Cys Asn Ser Phe Arg Tyr
20 25

<210> 143
<211> 9
<212> PRT
<213> Homo Sapien

<400> 143
Cys Tyr Phe Gln Asn Cys Pro Arg Gly
1 5

<210> 144
<211> 9
<212> PRT
<213> Homo Sapien

<400> 144
Cys Tyr Ile Gln Asn Cys Pro Arg Gly
1 5

<210> 145
<211> 28
<212> PRT
<213> Homo Sapien

<400> 145
His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15
Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Leu Asn
20 25

<210> 146
<211> 25
<212> PRT
<213> Homo Sapien

<400> 146
Met Leu Thr Lys Phe Glu Thr Lys Ser Ala Arg Val Lys Gly Leu Ser
1 5 10 15
Phe His Pro Lys Arg Pro Trp Ile Leu
20 25

<210> 147
<211> 3
<212> PRT
<213> Homo Sapien

<220>

<221> UNSURE
<222> 2
<223> Xaa is a variable

<400> 147
Tyr Xaa Asn
1

<210> 148
<211> 9
<212> PRT
<213> Homo Sapien

<400> 148
Phe Gln Phe His Phe His Trp Gly Ser
1 5

<210> 149
<211> 11
<212> PRT
<213> Homo Sapien

<400> 149
Ile Ile Ile Gln Phe His Phe His Trp Gly Ser
1 5 10

<210> 150
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<221> variation
<222> (5)..(7)
<223> "n" stands for a, g, c or t.

<220>
<223> Chemically synthesized oligonucleotide

<400> 150
gtgcnnngtg c

11

<210> 151
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<221> variation
<222> (5)..(8)
<223> "n" stands for a, g, c or t.

<220>
<223> Chemically synthesized oligonucleotide

<400> 151
gtccnnnnct ac

12

<210> 152
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<221> variation
<222> (8)..(15)
<223> "n" stands for a, g, c or t.

<220>
<223> Chemically synthesized oligonucleotide

<400> 152
gctgcccnnn nnnnngcctg ccc

23

<210> 153
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<221> variation
<222> (5)..(7)
<223> "n" stands for a, g, c or t.

<220>
<223> Chemically synthesized oligonucleotide

<400> 153
ctgcnnngtg c

11

<210> 154
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<221> variation
<222> (5)..(7)
<223> "n" stands for a, g, c or t.

<220>
<223> Chemically synthesized oligonucleotide

<400> 154
gcacnnngca c

11

<210> 155
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Chemically synthesized oligonucleotide

<p><400> 155 acgtttttgcg ttgtagtcaa tcg</p>	23
<p><210> 156 <211> 23 <212> DNA <213> Artificial Sequence</p>	
<p><220> <223> Chemically synthesized oligonucleotide</p>	
<p><400> 156 cgattgacta caacgcaaaa cgt</p>	23
<p><210> 157 <211> 23 <212> DNA <213> Artificial Sequence</p>	
<p><220> <223> Chemically synthesized oligonucleotide</p>	
<p><400> 157 cggcccccatt tttgggcgct acg</p>	23
<p><210> 158 <211> 23 <212> DNA <213> Artificial Sequence</p>	
<p><220> <223> Chemically synthesized oligonucleotide</p>	
<p><400> 158 cgtagcgccc aaaaatgggg ccg</p>	23